

TOWN OF DUDLEY
WOOD, PELLET, COAL STOVES
INSTALLATION APPLICATION

Name: _____

Permit No. _____

Address: _____

Permit Fee: \$55.00

Telephone: _____

Call 508-949-8012 for Inspection

Date Inspected: _____

**PERMIT NOT VALID
UNTIL "CERTIFICATE
OF INSPECTION" IS
ISSUED.**

Building Inspectors

Signature: _____

Type

New _____ Used _____

Manufacturer

Model # _____ Serial # _____

Report # _____ ASTM# _____ UL# _____

Dimensions

Height _____ Length _____ Width _____

Collar Size _____

Location (Circle One)

Free Standing

Insert

What room is it in? _____

Masonry Chimney

New _____ Existing _____

Size (Flue area) _____

Other appliances connected to flue _____

Lined _____ Flue Liner _____

Height _____ Cap _____

Prefab Chimney

Manufacturer _____

(Circle One) Through Wall

Through Roof

(Circle One) Single Wall

Double Wall

Height _____ Cap _____

Hearth - (Non combustible)

Material _____ Sub floor _____

Minimum Dimensions _____

Wall Clearances

Type of Protection _____ Clearance _____

Front

Rear

Left Side

Right Side

Mantel

Required

Provided

REGULATIONS

After obtaining the permit, there are three major areas in the stove installation process to consider. First, the stove; second, the chimney; and third, the actual installation.

First: All new woodburning stoves installed in Massachusetts must be tested and approved to U.L. 1482 and/or U.L. 737 as appropriate. Used stoves may be approved by the building department or the fire department. Every solid fuel-burning room heater shall bear a permanent and legible factory-applied label containing at least the following information:

1. Manufacturer's name and trademark
2. Model and/or identification number of the appliance
3. Type of fuel(s) approved
4. Testing laboratory's name or trademark and location
5. Date tested
6. Clearance to combustibles
 - a. Side
 - b. Rear
7. Test standard
8. Label serial number

Second: Existing chimneys should be checked for the presence of a flue liner and general structural condition. A smoke test may be used to determine if the draft is adequate, if the flue is without obstruction and if there is any smoke leakage. A visual inspection of the chimney is needed to check for creosote deposits, surface cracks or breaks, and if the damper is in good working order. The following two areas related to the chimney are important to inspect. The area where the chimney penetrates through the floor of ceiling joists should be checked to be sure that there is at least two inches clearance between combustible materials and the chimney.

Third: Chimneys and chimney connectors shall be installed with the required clearances (see installation clearance table). The connector should be sloped upwards toward the chimney and the connections overlapped upward to prevent creosote leakage. A two inch clearance shall be maintained where insulated pipe penetrates a combustible wall, unless it is tested and approved for lesser clearances.

A non-combustible hearth must be provided. Most stoves have legs and allow air to pass below; if the legs are not present, and air space below the non-combustible hearth must be provided. Clearances vary with circulating and radiant stoves. In general, a non-combustible shield should be installed with ventilation behind it for lesser clearances, no protection for large clearances, and if the wall is a concrete foundation wall, a minimum distance may be allowed.

STANDARDS

Test procedures have been developed by Underwriter Laboratories and the Canadian Standards Association for testing of different types of solid fuel appliances and chimneys. The standards are as follows:

U.L. 103 – FACTORY BUILD CHIMNEYS:

Concerns residential type chimneys used in conjunction with gas, liquid and solid fuel appliances.

U.L. 127 – FACTORY BUILD FIREPLACES:

Concerns metal fireplaces, consisting of fire chamber, chimney, and related parts designed to be built into a wall.

U.L. 737 – FREE STANDING FIREPLACES:

Concerns fireplaces which are free standing fire chamber assemblies. These units are typically made of lighter weight metal and have open fire chambers which cannot be closed.

U.L. 1482 – WOOD AND COAL BURNING STOVES:

Concerns room heaters which are free standing fire chamber assemblies of the circulating or direct radiation type.

C.S.A. B366-M1979 – SOLID & LIQUID FUEL CENTRAL HEATING APPLIANCES:

Wood, coal, and oil burning hot water or hot air central heating appliances.

U.L. – Underwriter's Laboratories

C.S.A. – Canadian Standards Association

A.S.M.E. – American Society of Mechanical Engineers (Any type of water pressure vessel should bear a stamp from this organization.)

E. Factory Built: Single wall pipe shall not be used as a chimney. Exterior and interior chimney shall have a clearance of not less than two (2") inches from combustible construction, or shall be installed to manufacturer's recommended clearances, according to test results. Factory built chimneys shall be tested and labeled showing compliance to U.L. Standard 103.

8. **CONNECTOR PIPE:** The connector pipe may only be used within the room where it originates from the solid fuel appliance. The area of the connector shall not be less than that of the appliance's smoke outlet. The maximum length of the connection run shall not exceed 75% of the total chimney height. The connector shall slope down away from the chimney a minimum of ¼" per foot. Chimney and connector sections shall be installed so that the pipe joints overlap with the upper pipe placed snugly into the lower pipe.

INSTALLATION

The installation of any woodburning stove and chimney must conform to these provisions of the Massachusetts State Building Code or manufacturers' recommended procedures (as required by the lab tested requirements).

1. **PERMIT:** A permit must be secured prior to installation of a woodburning stove. The application for the permit shall be accompanied by a list of components to be assembled and a diagrammatic sketch of the planned installation.
2. **LABEL:** Every new woodburning stove to be installed in Massachusetts must be labeled as having been tested (see standards) by a laboratory accredited by the State Building Code Commission.
3. **CHIMNEY (General):** Every woodburning stove shall be connected to either an existing chimney or a new chimney. All chimneys shall be secured at each floor level or at least every 10'-0" and adequately supported. All spaces between chimneys, floors, and ceilings shall be firestopped to a depth of two (2") inches.



TOWN OF DUDLEY BUILDING DEPARTMENT

PLEASE NOTE:

ALL DEPARTMENTS NEED TO SIGN OFF BEFORE THE BUILDING
DEPARTMENT WILL ACCEPT ANY APPLICATION FOR REVIEW!

PROJECT ADDRESS: _____

Property Owners Name _____

Property Owners Address _____

Contractor/Business Name _____

Contractors Address _____

TAX COLLECTOR/ TREASURER

Unpaid bill (Contact Tax Collector for more information) _____

Completed by _____

Date _____

BOARD OF HEALTH

Approved by _____

Date _____

SEWER DEPARTMENT

Approved by: _____

Date: _____

WATER DEPARTMENT

Approved by: _____

Date _____

CONSERVATION COMMISSION

Approved by _____

Date _____

FIRE PROTECTION REVIEW

Approved by _____

Date _____

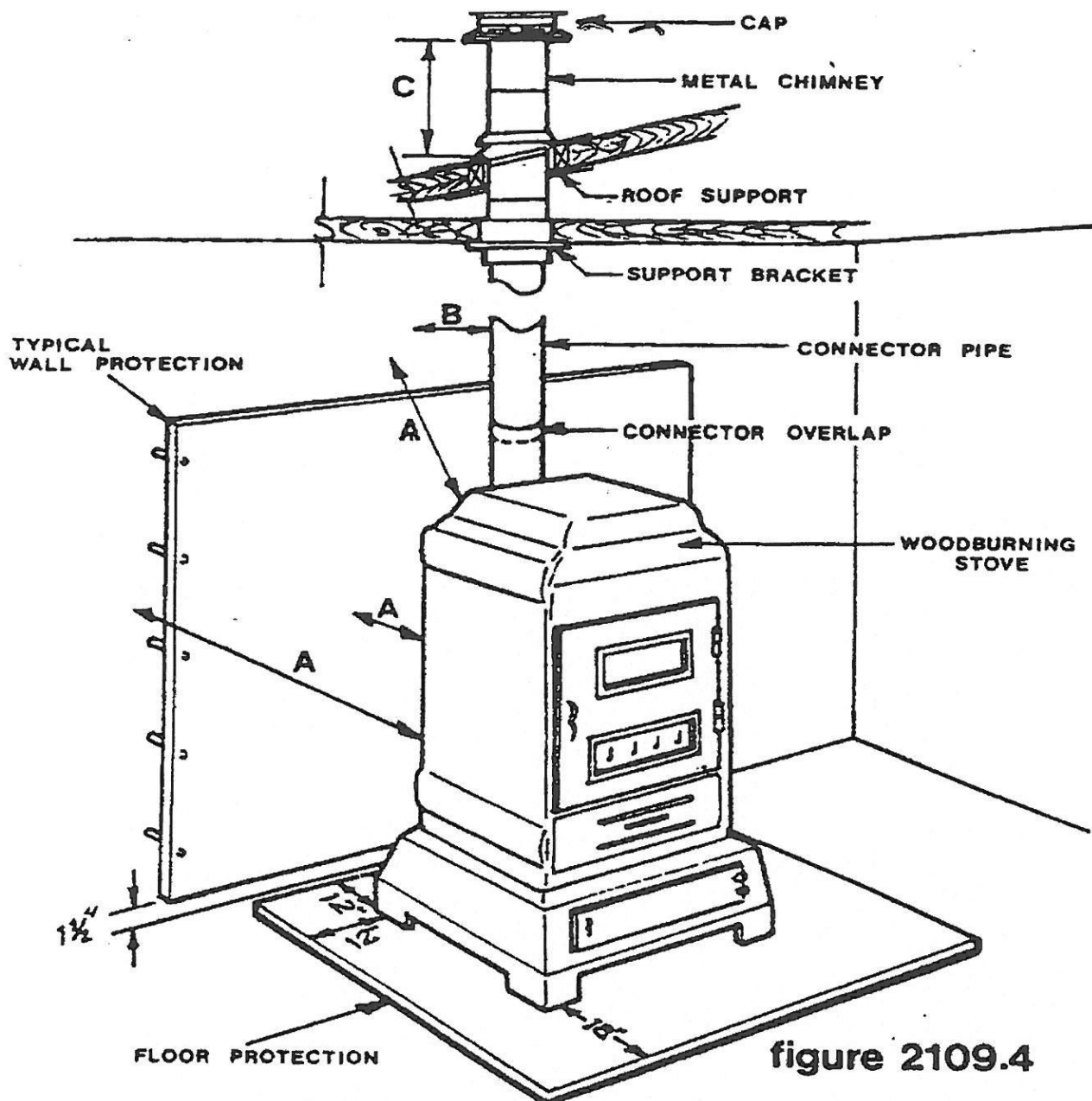


figure 2109.4

STOVE INSTALLATION CLEARANCES

Stove Components	TYPICAL WALL PROTECTION			
	Combustible Material	1/2" Asbestos Millboard Spaced Out 1"	Concrete/Masonry Foundation Wall	1/2" Brick Veneer
Radiant Stove 1. —Front	36"	—	—	—
Circulating Stove 1. —Front	24"	—	—	—
A. Radiant Stove 4. —Side/Back	36"	18"	6"	18"
A. Circulating Stove —Side/Back	12"	6"	6"	6"
B. Single Wall Connector Pipe 2.	18"	12"	6"	8"
B. Double Wall or Insulated Connector Pipe	9"	6"	4"	6"
C. Chimney Height (Metal or Masonry)	Three (3) feet above adjacent roof and two (2) feet above any roof ridge within 10 feet. If a damper is not included in the stove construction, it must be installed in the connector pipe.			
D. Damper				

1. Front: Fuel or ash access side.

2. Thimble required for passage through combustible construction.

3. Non-combustible spacers required.

4. Clearances on each side of a radiant stove with a heat shield shall be measured as if a circulating type.

